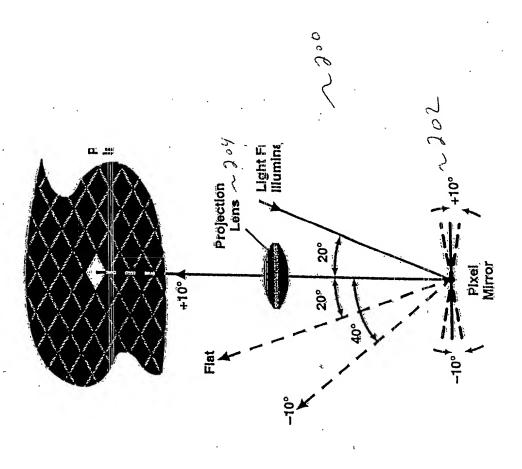
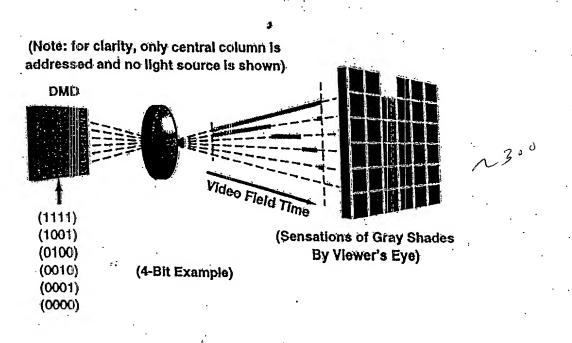
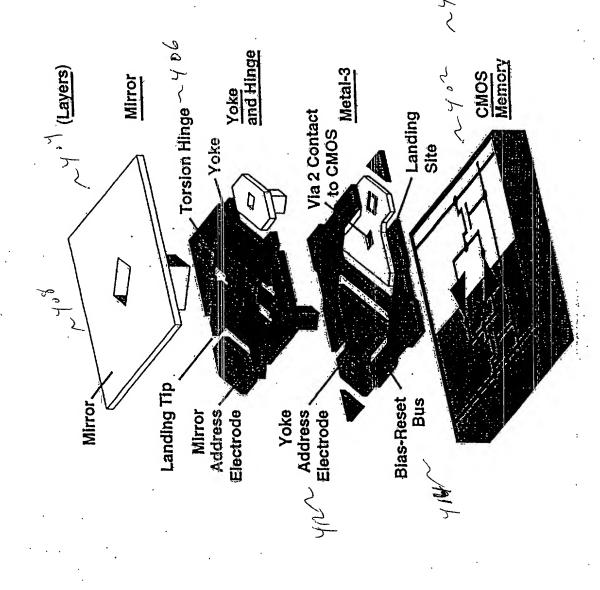


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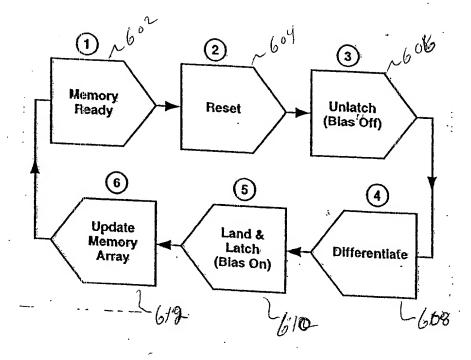




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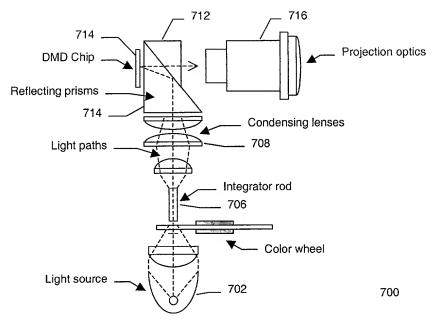


Figure 7 - Single-Chip DMD Projection System – Example 1

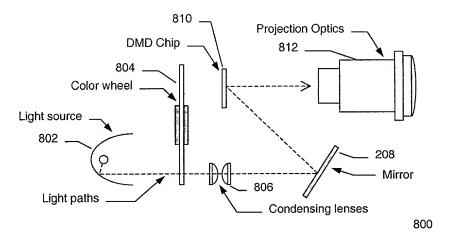


Figure 8 - Single-Chip DMD Projection System – Example 2 \$8/57\$

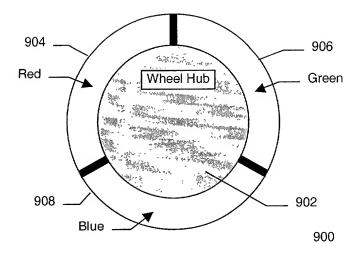


Figure 9 - Three-Segment Color Wheel for Single Chip DMD Projection Systems 9/57

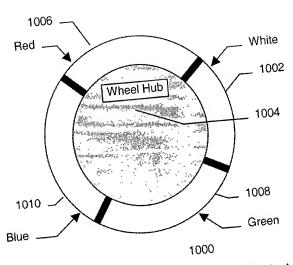


Figure 10 - Four-Segment Color Wheel for Single Chip DMD Projection Systems 10/57

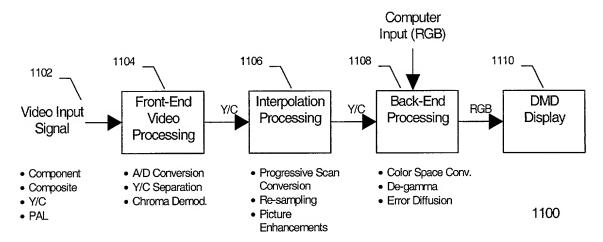


Figure 11 – 2D DMD Projector Video Processing Block Diagram for Single-Chip DLP Projector 11/57

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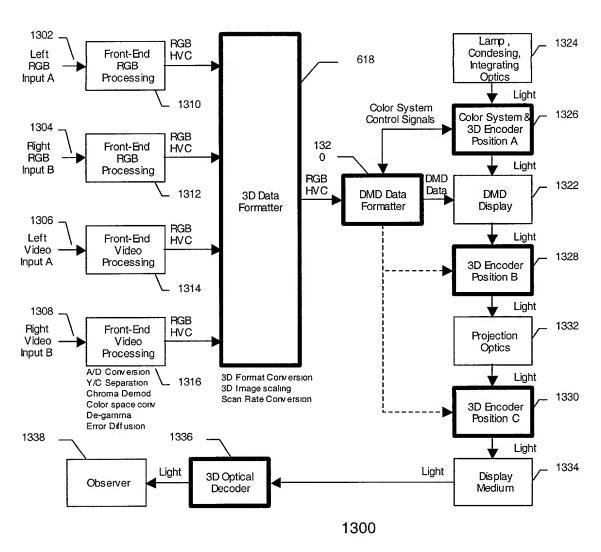


Figure 1 - Signal Flow and Optics Block Diagram for DMD Based 3D Projection System 13/57

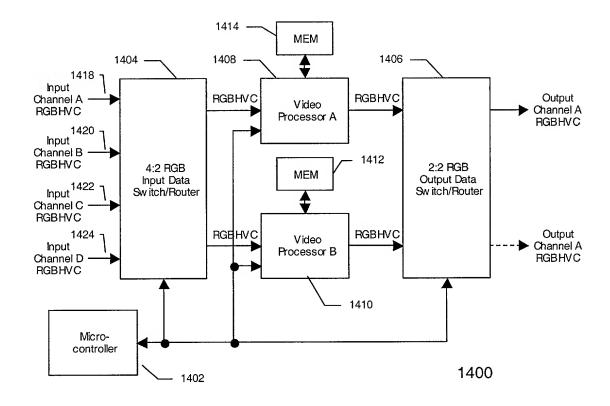


Figure 14 - 3D Data Formatter Block Diagram

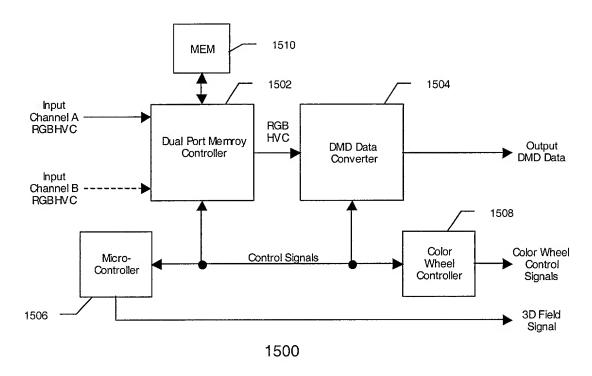


Figure 15 - DMD Data Formatter Block Diagram 15/57

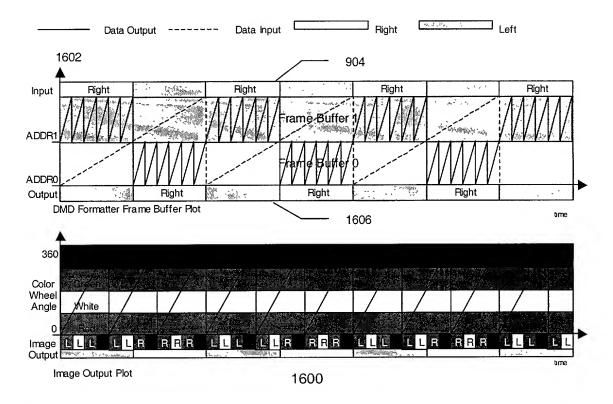


Figure 16 - DMD Data Formatter Chart for Input Synchronized Frame Sequential 3D Input Using Four-Segment Color Wheel (Chart applies to 75Hz, 80Hz, and 85Hz input signals)

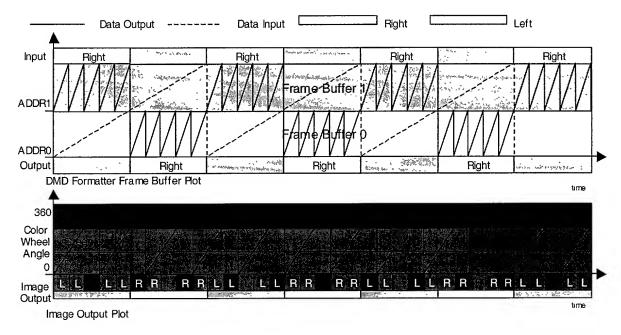


Figure 17 - DMD Data Formatter Chart for Input Synchronized Frame Sequential 3D Input Using Three-Segment Color Wheel (Chart applies to 72Hz, 75Hz, and 80Hz input signals)

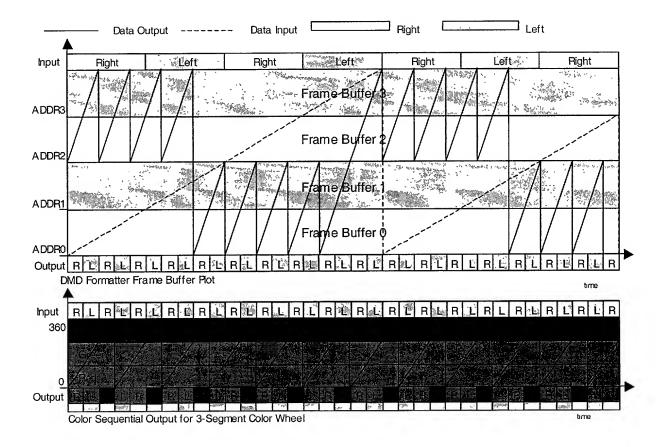


Figure 18 - Input Synchronized Color Sequential 3D Using a Three Segment Color Wheel and Quad Frame Buffer (Chart applies to 72Hz, 75Hz, and 80Hz input signals)

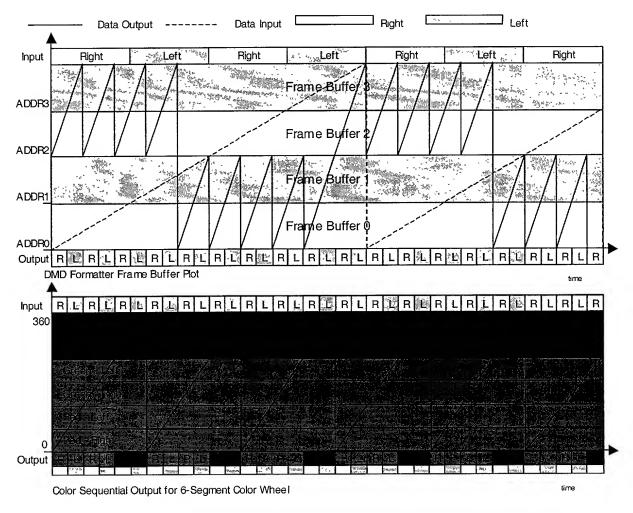


Figure 19 - Input Synchronized Color Sequential 3D Using a Six-Segment Color Wheel and Quad Frame Buffer (Chart applies to 72Hz, 75Hz, and 80Hz input signals)

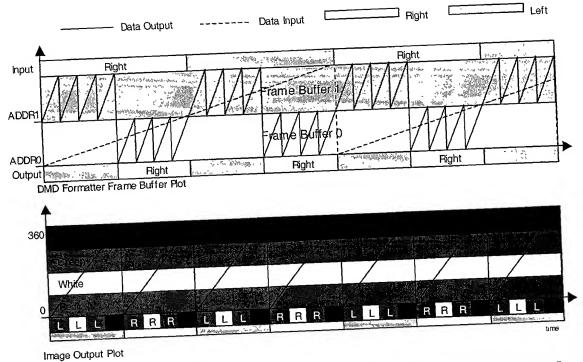


Figure 20 - DMD Formatter Chart for Output Synchronized Frame Sequential 3D Format for 60Hz Input Using a Four-Segment Color Wheel

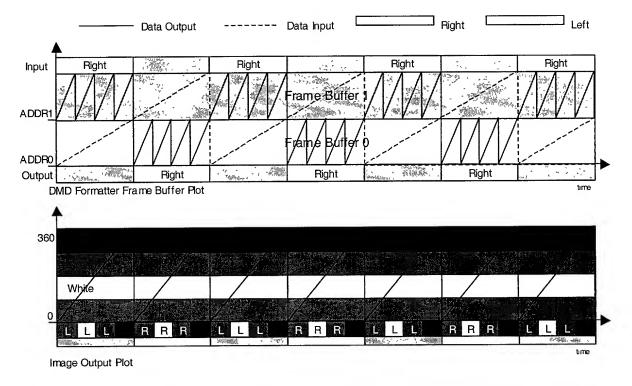


Figure 21 - DMD Formatter Chart for Output Synchronized Frame Sequential 3D Format for 120Hz Input Using a Four-Segment Color Wheel

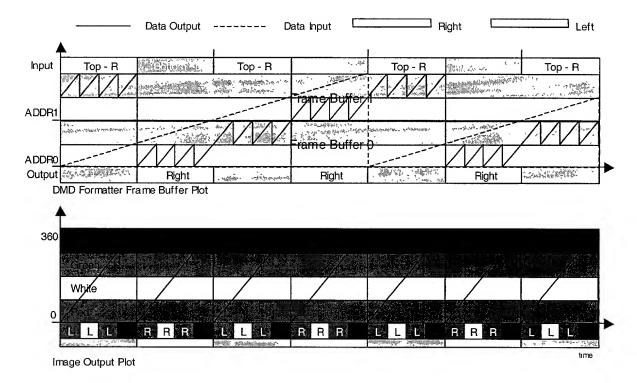


Figure 22 - DMD Formatter Chart for Output Synchronized Frame-Sequential 3D Format for 60Hz Over-Under 3D Input using a Four-Segment Color Wheel

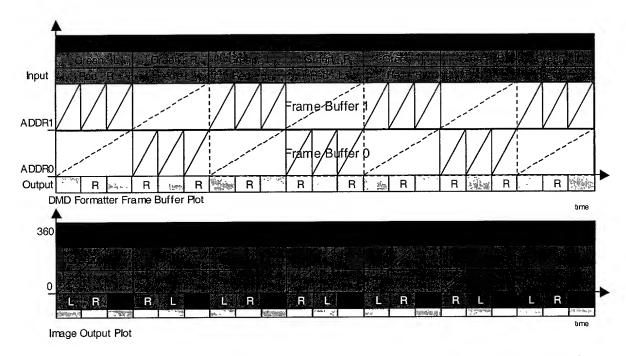


Figure 23- DMD Formatter Chart for Output Synchronized Color Sequential 3D Format for 120Hz Color-Sequential 3D Input, Using a Three-Segment Color Wheel

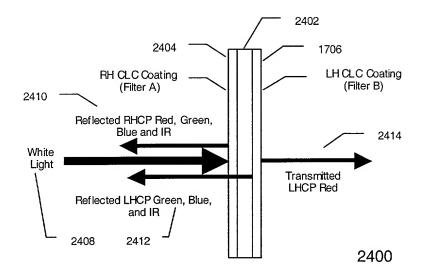


Figure 24 - Cholosteric Liquid Crystal Reflective Circular Polarizing Red Filter (Similar for White, Green, or Blue)

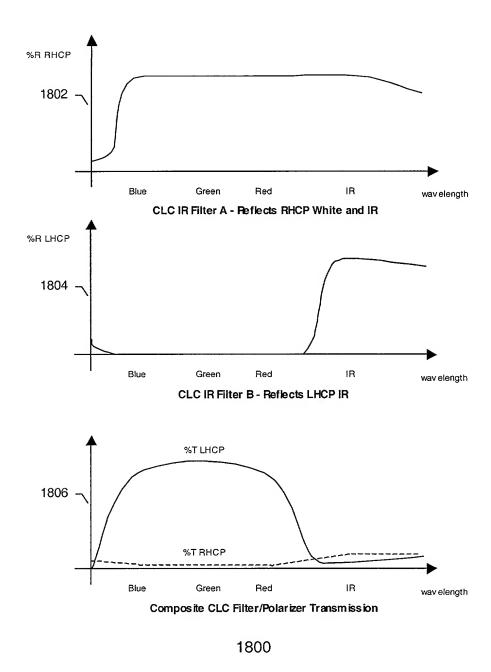


Figure 25 - Spectral Response for CLC IR Filter/Circular Polarizer 25/57

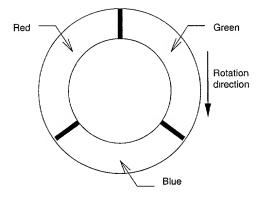


Figure 26 - Three-Segment Color Wheel Type CW-A

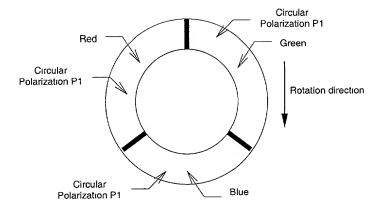


Figure 27 - Three-Segment Color Wheel Type CW-B

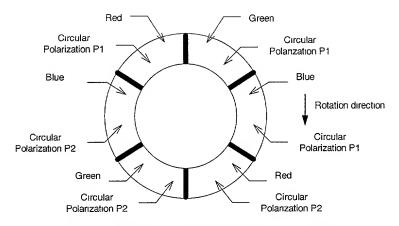


Figure 28- Six-Segment Color Wheel Type CW-C

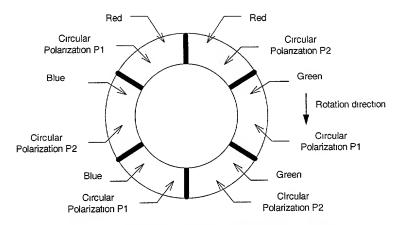


Figure 29 - Six-Segment Color Wheel Type CW-D $29/57 \label{eq:cw-D}$

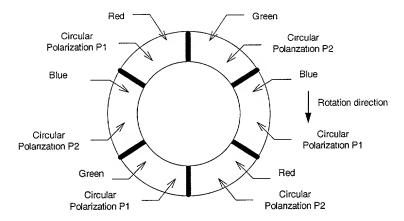


Figure 30- Six-Segment Color Wheel Type CW-E

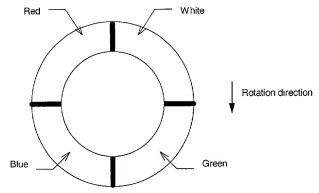


Figure 31 - Four-Segment Color Wheel Type CW-F 31/57

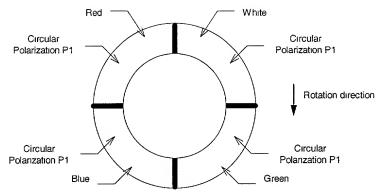


Figure 32 - Four-Segment Color Wheel Type CW-G 32/57

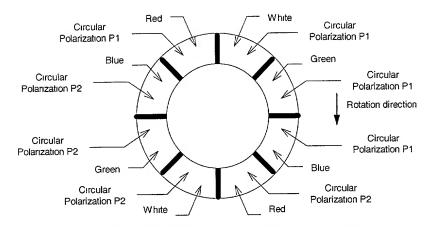


Figure 33 - Eight-Segment Color Wheel Type CW-H 33/57

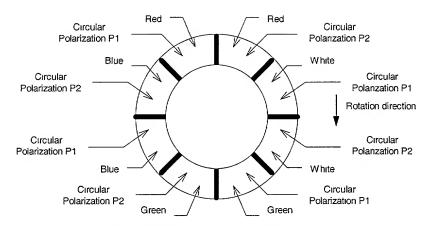


Figure 34 - Eight-Segment Color Wheel Type CW-I 34/57

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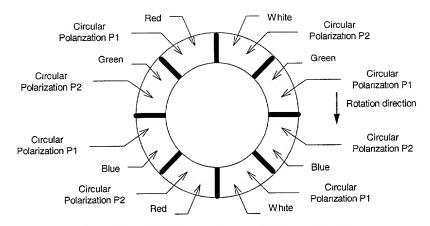


Figure 35 - Eight-Segment Color Wheel Type CW-J 35/57

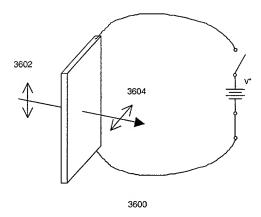


Figure 36 - Liquid Crystal Rotator with no Applied Terminal Voltage 36/57

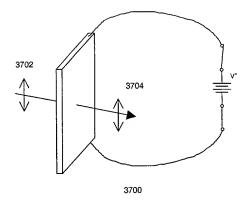


Figure 37 - Liquid Crystal Rotator with Applied Terminal Voltage 37/57

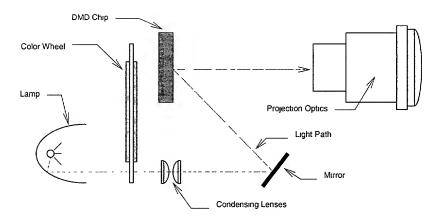


Figure 38 - DMD Based Stereo 3D Projector, 3D Optical Configurations: A, B, H, I, K, M, N, S, U, W 38/57

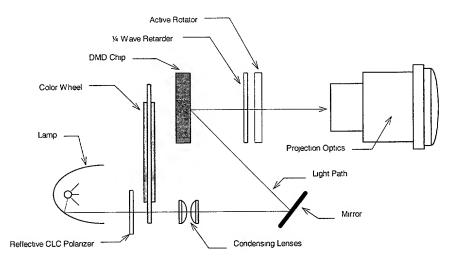


Figure 39. DMD Based Stereo 3D Projector, 3D Optical Configurations: C and O \$39/57\$

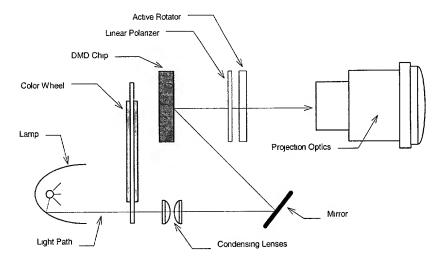


Figure 40. DMD Based Stereo 3D Projector, 3D Optical Configurations: D and P

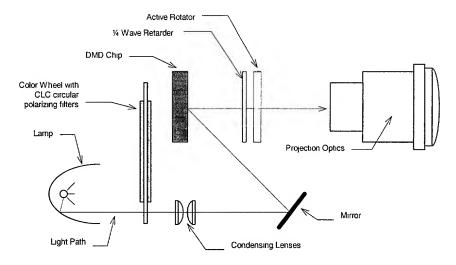


Figure 41- DMD Based Stereo 3D Projector, 3D Optical Configurations: E and Q \$41/57\$

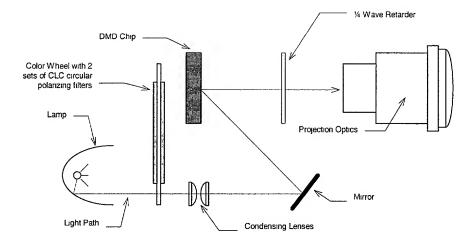


Figure 42 - DMD Based Stereo 3D Projector, 3D Optical Configurations: F, G, J, L, R, T, and V 42/57

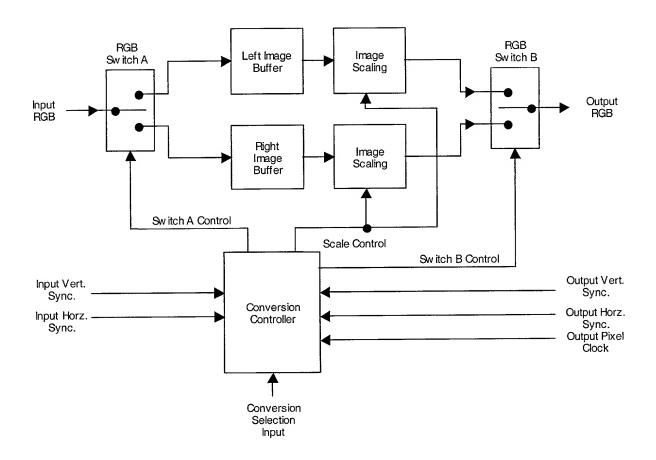


Figure 43. 3D Data Formatter Block Diagram 43/57

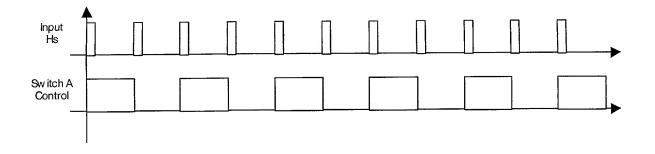


Figure 44. Switch A Control for Row-Interleaved RGB Input 44/57

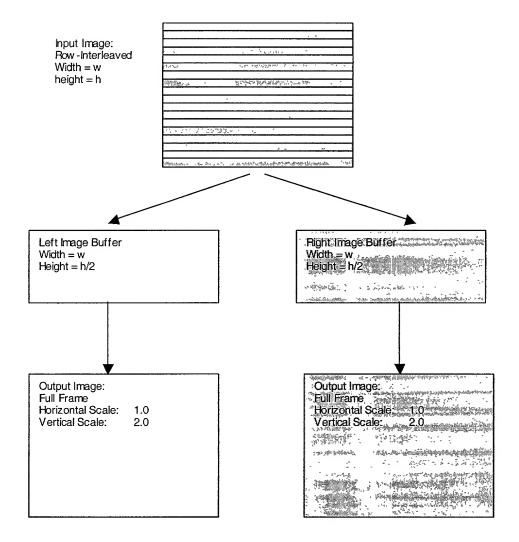


Figure 44. Output Scaling for Row-Interleaved 3D Format Input 44/57

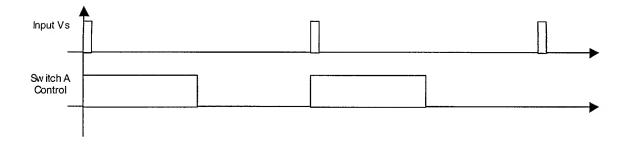


Figure 45. Switch A Control for "Over-Under" RGB 3D Format

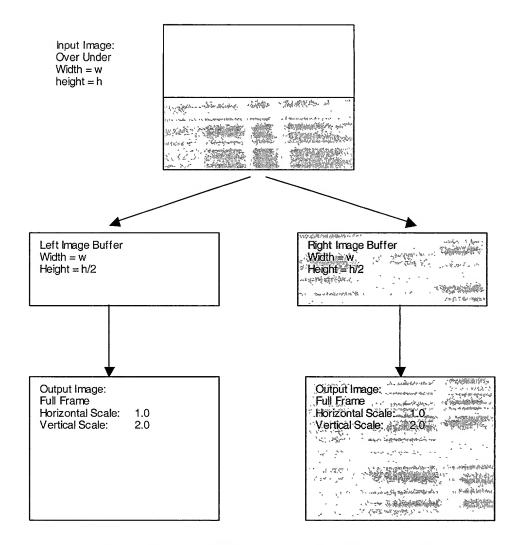


Figure 46. Output Scaling for Over-Under 3D Format Input

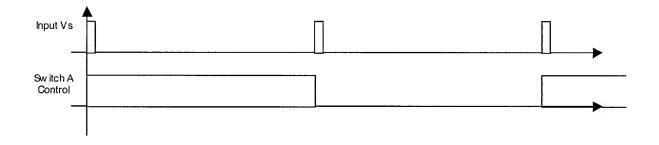


Figure 47 Switch A Control for "Page-Flipped" 3D Input 47/57

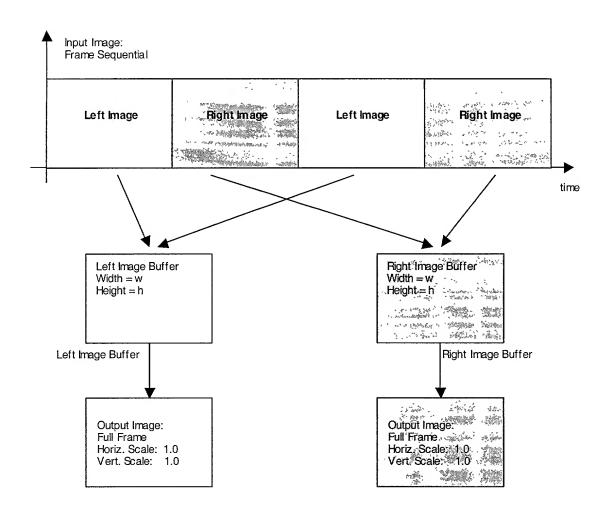


Figure 48. Output Scaling for "Page-Flipped" 3D Format Input 48/57

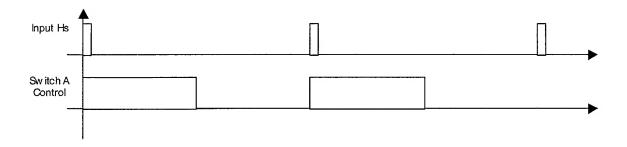


Figure 49 Switch A Control for "Side-by-Side" RGB 3D Input 49/57

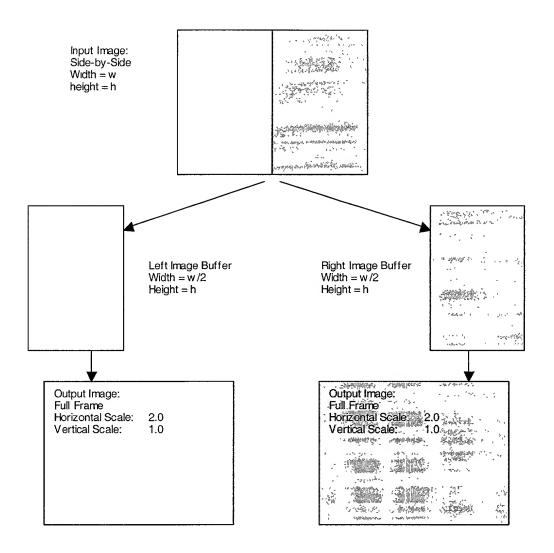


Figure 50. Output Image Scaling for Side-by-Side 3D Format Input 50/57

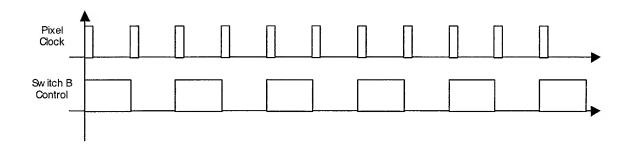


Figure 51. Switch B Control for 3D Data Formatter Block 51/57

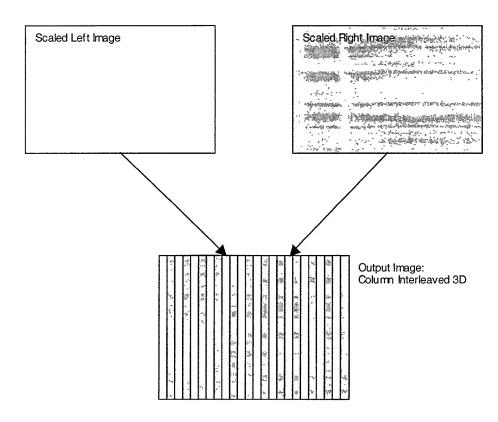


Figure 2. Graphical Illustration of 3D Data Formatter Output

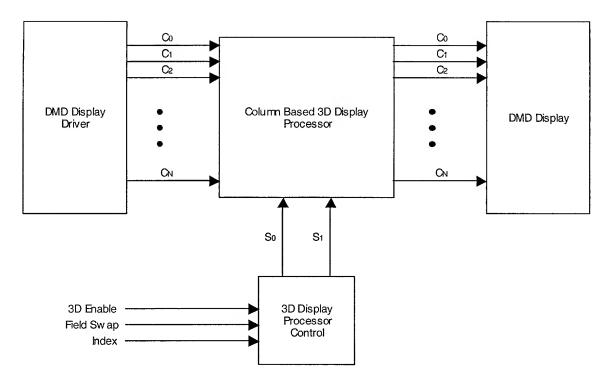


Figure 53. 3D Display Formatter 53/57

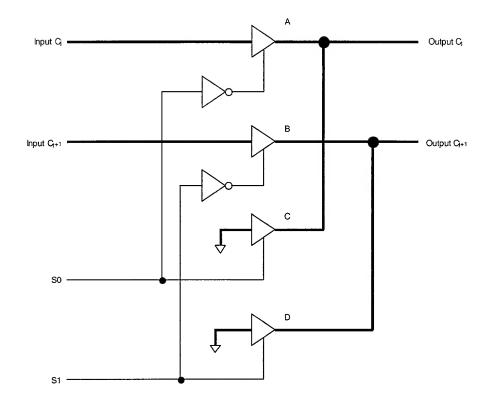


Figure 54. Block Diagram for 3D Display Processor Using Column Blanking Method

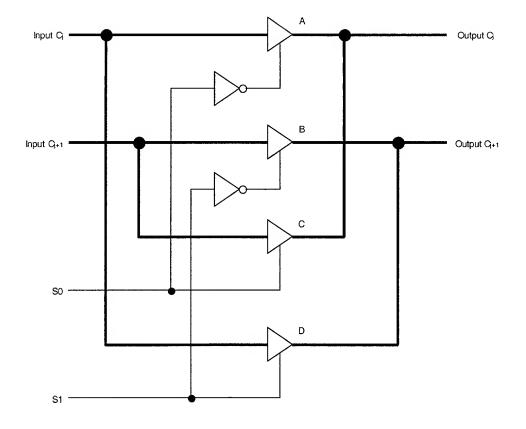


Figure 55

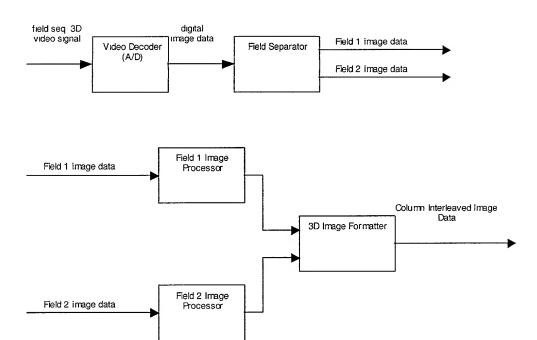


Figure 57